ENVIRONMENTAL CHEMISTS

Date of Report: 04/03/98 Date Received: 03/24/98

Project: Percentage of Acid, PO# M10463

Date Analyzed: 03/27/98

RESULTS FROM THE ANALYSIS OF WATER SAMPLES

FOR % ACID
Results Reported as Percent Acid by Volume

Sample ID	% Acid
M10463 A Small Tank	7.0
M10463 B Large Tank	

ENVIRONMENTAL CHEMISTS

Date of Report: 04/03/98 Date Received: 03/24/98

Project: Percentage of Acid, PO# M10463

Date Extracted: 03/27/98 Date Analyzed: 04/02/98

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR SPECIFIC GRAVITY @ 15.56 °C

Sample ID	Specific Gravity
M10463 A Small Tank	1.20
M10463 B Large Tank	1.26
Method Blank	1.00

ENVIRONMENTAL CHEMISTS

Date of Report: 04/03/98 Date Received: 03/24/98

Project: Percentage of Acid, PO# M10463

Date Extracted: 03/31/98 Date Analyzed: 03/31/98

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

M10463 A Small Tank	F1 000
	51,000
M10463 B Large Tank	56,000
Method Blank	<20

ENVIRONMENTAL CHEMISTS

Date of Report: 04/03/98 Date Received: 03/24/98

Project: Percentage of Acid, PO# M10463

QUALITY ASSURANCE RESULTS FOR SPECIFIC GRAVITY

Laboratory Code: 803055-01 (Duplicate)

첫 시작하다 하를 하다는 사람들이 걸			Relative	
	Sample	Duplicate	Percent	Acceptance
Analyte	Result	Result	Difference	Criteria
Specific Gravity@ 15.56°C	1.08	1.09	1	0-20

ENVIRONMENTAL CHEMISTS

Date of Report: 04/03/98 Date Received: 03/24/98

Project: Percentage of Acid, PO# M10463

QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 803112-01 (Duplicate)

Analyte	Reporting	Sample	Duplicate	Percent	Acceptance
	Units	Result	Result	Difference	Criteria
Iron	mg/L (ppm)	51,000	47,000	8	0-20

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recovery	% Recovery	Acceptance	
Analyte	Units	Level	LCS	LCSD	Criteria	RPD
Iron	mg/L (ppm)	10	99	103	80-120	4

803112

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Scattle, WA 98119-2029 (206) 285-8282

ATI 3/24/98

SAMPLE CHAIN OF CUSTODY

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

April 3, 1998

DUPLICATE COPY

INVOICE #98ACU0403-1

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Percentage of Acid, PO# M10463: Results of testing requested by Gerry Thompson for material submitted on March 24, 1998.

2 water samples analyzed for percentage of Acids @ \$25 per sample		\$ 50.00
2 water samples analyzed for Specific Gravity @ \$25 per sample		50.00
2 water samples analyzed for Iron using Method 6010 @ \$35 per sample		70.00
Amount Due		\$ 170.00

FEDERAL TAX ID (b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

April 3, 1998

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on March 24, 1998 from your Percentage of Acid, PO# M10463 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN, & BRUYA, INC.

Manuel Marti Project Manager

Enclosures ACU0403R.DOC